

Applicant : Jeff Young et al.
Serial No. : 09/266,680
Filed : March 11, 1999
Page : 2

Attorney's Docket N. : 07844-292001 / P268

In the claims:

Please amend the claims as follows:

14. (Currently Amended) A computer executable method of converting a format of a first source document to a format of a ~~similarly structured~~ second source document, the method comprising:

identifying patterns common to the first and second source documents; and
using the identified common patterns to map elements and sub-elements in the first source document to equivalent elements and sub-elements in the second source document, at least one of the elements or sub-elements in the first source document being mapped to an element or sub-element of a different element type in the second source document based on the identified common patterns.

15. (Original) The method of claim 14, further comprising:
replacing tag names for each of the elements and sub-elements in the first source document with equivalent tag names of the elements and sub-elements in the second source document.

16. (Original) The method of claim 14, wherein identifying patterns common to the first and second source documents comprises:
examining document type definitions for the first and second source documents.

17. (Original) The method of claim 16, further comprising:
producing the document type definition for the first source document if the document type definition for the first source document does not already exist.

18. (Original) The method of claim 14, wherein identifying patterns common to the first and second source documents comprises:
performing pattern matching.

Applicant : Jeff Young et al.
Serial No. : 09/266,680
Filed : March 11, 1999
Page : 3

Attorney's Docket No.: 07844-292001 / P268

19. (Cancelled)

20. (Currently Amended) The method of claim ~~19~~14, wherein identifying patterns common to the first and second source documents further comprises:

matching heuristics of the patterns in the first source document to heuristics of the patterns in the second source document.

21. (Previously Amended) The method of claim 14, wherein using the identified common patterns to map uses the identified common patterns to map automatically elements and sub-elements in the first source document to equivalent elements and sub-elements in the second source document.

22. (Currently Amended) A computer executable method of converting the format of a source document to the format of a set of source documents, the set of source documents having ~~a structure similar to~~ the first source document, the method comprising:

identifying patterns common to the source document and the set of source documents;

mapping elements and sub-elements in the common pattern of the source document to equivalent elements and sub-elements in the common pattern of the set of source documents, at least one of the elements or sub-elements in the source document being mapped to an element or sub-element of a different element type in the set of source documents based on the identified common patterns; and

replacing tag names for the each of the elements and sub-elements in the common pattern of the source document with the equivalent tag names of the elements and sub-elements in the common pattern of the set of source documents.

23. (Previously Amended) The method of claim 22, wherein identifying patterns common to the source document and the set of source documents comprises:

examining document type definitions for the source document and the set of source documents.

Applicant : Jeff Young et al.
Serial No. : 09/266,680
Filed : March 11, 1999
Page : 4

Attorney's Docket No.: 07844-292001 / P268

24. (Original) The method of claim 23, further comprising:
producing the document type definition for the source document if the document type
definition for the source document does not already exist.

25. (Currently Amended) A computer program residing on a computer-readable
medium for converting a format of a first source document to a format of a ~~similarly structured~~
second source document, the computer program comprising instructions causing a computer
system to:

identify patterns common to the first and second source documents; and
use the identified common patterns to map elements and sub-elements of the first source
document to equivalent elements and sub-elements of the second source document, at least one
of the elements or sub-elements in the first source document being mapped to an element or sub-
element of a different element type in the second source document based on the identified
common patterns.

26. (Original) The computer program of claim 25, further comprising instructions to:
replace tag names for the each of the elements and sub-elements in the common pattern
of the first source document with equivalent tag names of the elements and sub-elements in the
common pattern of the second source document.

27. (Previously Amended) The computer program of claim 26, wherein the
instructions to identify patterns common to the source document and the set of source documents
comprise instructions to:

examine document type definitions for the source document and the set of source
documents.

28. (Currently Amended) A computer system comprising:
a storage device for storing a source document and a set of source documents, the source
document having a format different from that of the set of source documents; and

Applicant : Jeff Young et al.
Serial No. : 09/266,680
Filed : March 11, 1999
Page : 5

Attorney's Docket N. : 07844-292001 / P268

a computer processor configured by a mapping program to identify patterns common to the source document and the set of source documents and map elements and sub-elements in the common pattern of the source document to equivalent elements and sub-elements the common pattern of the set of source documents, at least one of the elements or sub-elements in the source document being mapped to an element or sub-element of a different element type in the set of source documents based on the identified common patterns.

29. (Previously Added) The computer program of claim 27, further comprising instructions causing a computer system to:

produce the document type definition for the first source document if the document type definition for the first source document does not already exist.

30. (Previously Added) The computer program of claim 25, wherein the instructions causing a computer system to identify patterns common to the first and second source documents comprises instructions causing a computer system to:

perform pattern matching.

31. (Cancelled)

32. (Currently Amended) The computer program of claim ~~31~~ 25, wherein the instructions causing a computer system to identify patterns common to the first and second source documents further comprises instructions causing a computer system to:

match heuristics of the patterns in the first source document to heuristics of the patterns in the second source document.

33. (Previously Added) The computer program of claim 25, wherein the instructions causing a computer system to use the identified common patterns to map uses the identified common patterns to map automatically elements and sub-elements in the first source document to equivalent elements and sub-elements in the second source document.

Applicant : Jeff Young et al.
Serial No. : 09/266,680
Filed : March 11, 1999
Page : 6

Attorney's Docket No.: 07844-292001 / P268

34. (Currently Amended) A computer program residing on a computer-readable medium for converting the format of a source document to the format of a set of source documents, the set of source documents having a ~~structure similar to~~ the first source document, the computer program comprising instructions causing a computer system to:

identify patterns common to the source document and the set of source documents;

map elements and sub-elements in the common pattern of the source document to equivalent elements and sub-elements in the common pattern of the set of source documents, at least one of the elements or sub-elements in the first source document being mapped to an element or sub-element of a different element type in the second source document based on the identified common patterns; and

replace tag names for the each of the elements and sub-elements in common pattern of the source document with the equivalent tag names of the elements and sub-elements in common pattern of the set of source documents.

35. (Previously Added) The computer program of claim 34, wherein the instructions causing a computer system to identify patterns common to the source document and the set of source documents comprises instructions causing a computer system to:

examine document type definitions for the source document and the set of source documents.

36. (Previously Added) The computer program of claim 35, further comprising instructions causing a computer system to:

produce the document type definition for the source document if the document type definition for the source document does not already exist.

37. (New) The method of claim 1, wherein using the identified common patterns includes:

mapping the elements and sub-elements in the first source document to equivalent elements and sub-elements in the second source document based on the identified common patterns without user intervention.

Applicant : Jeff Young et al.
Serial No. : 09/266,680
Filed : March 11, 1999
Page : 7

Attorney's Docket No.: 07844-292001 / P268

38. (New) The method of claim 22, wherein using the identified common patterns includes:

mapping the elements and sub-elements in the source document to equivalent elements and sub-elements in the set of source documents based on the identified common patterns without user intervention.

39. (New) The computer program of claim 25, wherein the instructions to use the identified common patterns to map elements and sub elements of the first source document to equivalent elements and sub-elements of the second source document comprise instructions to:

map the elements and sub-elements in the first source document to equivalent elements and sub-elements in the second source document based on the identified common patterns without user intervention.

40. (New) The computer program of claim 34, wherein the instructions to map elements and sub elements in the common pattern of the source document to equivalent elements and sub-elements in the common pattern of the set of source documents comprise instructions to:

mapping the elements and sub-elements in the source document to equivalent elements and sub-elements in the set of source documents based on the identified common patterns without user intervention.